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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/831,435	08/21/2001	Ingemar Eriksson	821-33	4210
28249	7590 08/24/2004		EXAMINER	
DILWORTH & BARRESE, LLP			CASTRO, ARNOLD	
	OVINGTON BLVD. .E, NY 11553		ART UNIT PAPER NUMBER	
	,		3747	1.
			DATE MAILED: 08/24/2004	//

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/831,435	09/831,435 ERIKSSON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Arnold Castro	3747	
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet w	th the correspondence address	
• •	DEDIVIS SET TO EVOIDE 2 M	ONTH(S) EDOM	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun. - If the period for reply specified above is less than thirty (30) or If NO period for reply is specified above, the maximum statut. - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a lication. days, a reply within the statutory minimum of thir tory period will apply and will expire SIX (6) MON I, by statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed	on .		
•)⊠ This action is non-final.		
3) Since this application is in condition for	/—	ers, prosecution as to the merits is	
closed in accordance with the practice	•		
Disposition of Claims			
4)⊠ Claim(s) <u>26-50</u> is/are pending in the ap	oplication.		
4a) Of the above claim(s) 47-50 is/are	•		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-36 42 44-46</u> is/are rejected.			
7) Claim(s) 37-40 and 43 is/are objected	to.		
8) Claim(s) are subject to restriction	on and/or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the B	Examiner.		
10) The drawing(s) filed on is/are: a	a) accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection	on to the drawing(s) be held in abeya	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the	•		
11)☐ The oath or declaration is objected to b	by the Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for	r foreign priority under 35 U.S.C. §	3 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	•		
 Certified copies of the priority do 	ocuments have been received.		,
2. Certified copies of the priority do	ocuments have been received in A	pplication No	
Copies of the certified copies of	the priority documents have been	received in this National Stage	
application from the Internationa	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action to	for a list of the certified copies not	received.	
Attachment(s)	Λ □1	Common (DTO 440)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTC 		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date		nformal Patent Application (PTO-152)	,

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group B in the reply filed on February 23, 2004 is acknowledged. The traversal is on the ground(s) that claims 26-40 contains the same general inventive concept with the elected Group B and should be examined with the elected claims. This is argument is found persuasive because the features of the valves are recited in Group A. The claims of Group C are withdrawn from consideration. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 26, 28, 31, and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Kern et al. (US/4,020,809).

Keen et al. discloses an EGR system for diesel engine has an EGR mixing valve (26). The valve has two dampers (34, 35) fixed at 90 degree opposing angles.

Inherently when one valve closes the other is at maximum open state. A drive motor 28 is connected to valve 26. The valve is operated based on engine load. See figures 1-4 and col. 3 lines 32 through col. 5, line 15.

4. Claims 26, 28, 30-32, 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Meidetucza et al. DE 3237337 A.

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- 5. Meidetucza et al. discloses a diesel engine having a supercharger 2 with the EGR mixing valve (10, 11, 12) arranged between the intake and supercharger. The valve has two dampers (10,11) fixed at 90 degree opposing angles. Inherently when one valve closes the other is at maximum open state. A servo drive motor 12 is connected to valve 26. The valve is operated based on engine pressure differential between the pipe and feed as regulated by control unit.
- 6. Claim 41 is rejected under 35 U.S.C. 102(b) as being anticipated by Ohtsubo (US/5,427,141).

Ohtsubo shows a valve for mixing two fluids wherein one of the dampers is always open. See col. 3 lines 33-44.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 27, 29, 33, and 34 are rejected under 35 U.S.C. 103(a) as being obvious over Kern et al. (US/4,020,809) in view of Kashiyama et al. (US/5,205,265).
- 9. Kerns applies as in claim 26, and 31 above, however does not expressly show the pickup point for exhaust gases. Kashiyama et al. shows the EGR gases being diverted after a catalyst (32) and particle filter (42) and inline with EGR cooler (41). Col. 4, lines 35-65 and figure 1.

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At the time of invention it would have been obvious to mount the valve (26) of Kerns after a catalyst and filter and EGR cooler as taught in Kashiyama. The motivation to do so would be to condition the exhaust gases, thus preventing carbon buildup in valve 26 and engine.

10. Claims 42 and 44 rejected under 35 U.S.C. 103(a) as being unpatentable over by Ohtsubo (US/5,427,141) in view Wade (US/4,924,840).

Ohtsubo shows a dual valve for mixing two fluids wherein one of the dampers is always open and mention that an actuator is mounted at point 10. However Ohtsubo is does not expressly disclose the actuator.

Wade shows a dual valve functioning in same manner as the dual valve of Ohtsubo. Wade states the two valves are place in common shaft and maintain proper percentage of flow however does not expressly state that one of the dampers is always open. Wade shows a stepper motor 52 connected to valve to control flow. See figure 2.

At the time of invention it would have been obvious to use the actuator (e.g. stepper motor) shown in Wade with the valve of Ohtsubo. Motivation would have been to increase response time as noted in Wade.

Allowable Subject Matter

11. Claims 37-40 and 43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Castro whose telephone number is (703) 305-0039. The examiner can normally be reached on 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuen Henry can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold Castro Examiner Art Unit 3747